Norlite SMALE AGGREGE

NORLITE, LLC

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January 31, 2013

Karen M. Gaidasz, CPESC
Environmental Analyst
New York State Department of Environmental Conservation
Region 4
1130 North Westcott Road
Schenectady, NY 12306-2014
RETURN RECEIPT REQUESTED VIA EMAIL

Mr. Kenneth Eng
Air Compliance Branch
United States Environmental Protection Agency
Region 2
290 Broadway
New York, NY 10007-1866
RETURN RECEIPT REQUESTED VIA EMAIL

Re: Norlite Corporation-MACT Excessive Exceedances Report

Kiln 1: 01/22/13 – 01/31/13 Kiln 2: 01/22/13 – 01/31/13

Dear Sirs:

In accordance with 40 CFR 63.1206(c)(3)(vi), the Norlite Corporation (Norlite) is submitting an "Excessive Exceedance Report" for the timeframe of 01/22/13 thru 01/31/13. The attached document explains each of the "malfunctions" for Kilns One & Two.

The results of the investigation concluded a majority of the waste feed cutoffs were a result of the span limit associated with the stack gas flow monitor. The stack gas cutoffs associated with Kiln 1 are due in part to worn out internal parts of the scrubber system. These internals will be repaired or replaced during a planning 10 day shutdown starting on February 04, 2013. Once the internals are repaired or replaced, there should be much less water and soda ash solids contacting the Mist Pad which is contributing the stack gas cutoffs. As stated previously, Norlite and its consultant believe the stack gas cutoffs which are less than 2 minutes in duration to be associated with water droplets hitting the probe.

Norlite is preparing a protocol for the installation of the new scintillation technology flow meters to start the process of side by side data comparison. The hope is to gather data showing the accuracy of the new instruments and then seek approval to remove the current stack probes and to continue using the new monitors. The installation protocol will be completed and stamped by an independent engineer in the near future.

All of the malfunctions that occurred were consistent with our Startup, Shutdown and Malfunction Plan (SSMP). As approved by the NYSDEC on February 6, 2006, these reports are being sent electronically.

DCL: 2413



NORLITE, LLC

Should you have any questions regarding this letter, please contact me at (518) 235-0401 or email at: tvanvranken@norlitecorp.com.

Sincerely,

Thomas Van Vranken

Thomas Van Vranken Environmental Manager

Attachments

ecc: Don Spencer, NYDEC – R4 w/attachments

James Lansing, NYSDEC – CO w/attachments Joe Hadersbeck, NYSDEC – R4 w/attachments

Tita LaGrimas, Tradebe



NORLITE, LLC MACT EXCEEDANCE REPORT - KILN 1

01/22/13 - 0)1/31/13
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Start Dat	Start Time	End Date	End Time	Downtime	#	Event	Cause	Parameter	Limit	Corrective Action
1/25/2013	0:58:48	1/25/2013	5:05:07	4:06:19	20	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Venturi D.P. Span Due to High Ducon D.P. Pressures Which Caused the ID Fan to be Lowered / Rinsed Mist Pad	Venturi D.P.	Span	Rinsed the Mist Pad
1/26/2013	12:24:29	1/26/2013	16:47:17	4:22:48	21	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to the Mist Pad Being Coated With Soda Ash Solids / Rinsed Mist Pad	Stack Gas Flow Rate	Span	Rinsed the Mist Pad
1/26/2013	16:54:25	1/26/2013	16:54:49	0:00:24	22	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe	Stack Gas Flow Rate	Span	I&E Cleaned Probe
1/26/2013	16:55:37	1/26/2013	16:56:35	0:00:58	23	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe	Stack Gas Flow Rate	Span	I&E Cleaned Probe
1/27/2013	1:34:03	1/27/2013	1:34:23	0:00:20	24	Malfunction	The Kiln Was Experiencing Decreased System Draft Due to the Scrubber Being Partially Plugged. Rinsing the Mist Pad Helped Reduce the the Level of Plugging. Major Repairs Will Occur On the Baghouse and Scrubber System for this Kiln on 02/04/13.	Front Kiln Pressure, 1 Second Delay	Opl	Adjusted Fuel Flow and LGF Line Pressure
1/27/2013	17:29:13	4/07/2042	17:29:33	0.00.20	25	Malfunction	The Kiln Was Experiencing Decreased System Draft Due to the Scrubber Being Partially Plugged. Rinsing the Mist Pad Helped Reduce the Level of Plugging. Major Repairs Will Occur On the Baghouse and Scrubber System for this Kiln on 02/04/13.	Front Kiln Pressure, 1 Second Delay	Opl	Adjusted Fuel Flow and LGF Line Pressure
1/28/2013	0:15:21	1/27/2013	0:16:17	0:00:20 0:00:56	25 26	Malfunction Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe	Stack Gas Flow Rate	Span	I&E Cleaned Probe
1/28/2013	0:39:20	1/28/2013	0:40:22	0:01:02	27	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe	Stack Gas Flow Rate	Span	I&E Cleaned Probe
1/28/2013	1:40:36	1/28/2013	1:57:32	0:16:56	28	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe/Removing Large Aggregate Balls From the Cooler	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/28/2013	2:24:09	1/28/2013	2:43:49	0:19:40	29	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Soda Ash Solids Coating the probe/Removing Large Aggregate Balls From the Cooler	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/28/2013	16:20:54	1/28/2013	16:21:28	0:00:34	30	Malfunction	The Kiln Was Experiencing Decreased System Draft Due to the Scrubber Being Partially Plugged. Rinsing the Mist Pad Helped Reduce the Level of Plugging. Major Repairs Will Occur On the Baghouse and Scrubber System for this Kiln on 02/04/13.	Front Kiln Pressure, 1 Second Delay	Opl	Adjusted Fuel Flow and LGF Line Pressure



NORLITE, LLC MACT EXCEEDANCE REPORT - KILN 1 01/22/13 - 01/31/13

	SHALE AGGRE						01/22/13 - 01/31/13			
Start Date	Start Time	End Date	End Time	Downtime	#	Event	Cause	Parameter	Limit	Corrective Action
							The Kiln Was Experiencing Decreased System Draft Due to the Scrubber Being Partially Plugged. Rinsing the Mist Pad Helped Reduce the the Level of Plugging. Major Repairs Will Occur On the Baghouse and Scrubber System for this Kiln on	Front Kiln Pressure, 1		Adjusted Fuel Flow and LGF
1/28/2013	21:20:54	1/28/2013	21:22:07	0:01:13	31	Malfunction	02/04/13. Instantaneous Upper Instrument Setpoint Reached	Second Delay	Opl	Line Pressure
1/28/2013	22:06:15	1/28/2013	22:06:46	0:00:31	32	Malfunction	for Stack Gas Span	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/28/2013	22:19:42	1/28/2013	22:20:39	0:00:57	33	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/28/2013	23:47:48	1/28/2013	23:48:19	0:00:31	34	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/28/2013	23:55:05	1/28/2013	23:55:48	0:00:43	35	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span	Stack Gas Flow Rate	Span	Adjusted Fuel Flow
1/29/2013	21:14:40	1/29/2013	21:18:31	0:03:51	36	Malfunction	The Kiln Was Experiencing Decreased System Draft Due to the Scrubber Being Partially Plugged. Rinsing the Mist Pad Helped Reduce the the Level of Plugging. Major Repairs Will Occur On the Baghouse and Scrubber System for this Kiln on 02/04/13.	Front Kiln Pressure, 1 Second Delay	Opl	Adjusted Fuel Flow and LGF Line Pressure
1/30/2013	20:35:41	1/30/2013	20:37:39	0:01:58	37	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Water From the Scrubber Hitting the Probe. The Scrubber System Was Partially Plugged Which Caused Excess Water in the Scrubber System. Some of the Excess Water Was Able to Pass By the Mist Pad As Water Droplets and Hit the Probe	Stack Gas Flow Rate	Span	Cleaned the Recirculation Filter Baskets and Lowered the Recycle Flow Rate
1/30/2013	20:49:18	1/30/2013	20:53:03	0:03:45	38	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Water From the Scrubber Hitting the Probe. The Scrubber System Was Partially Plugged Which Caused Excess Water in the Scrubber System. Some of the Excess Water Was Able to Pass By the Mist Pad As Water Droplets and Hit the Probe	Stack Gas Flow Rate	Span	Cleaned the Recirculation Filter Baskets and Lowered the Recycle Flow Rate
1/31/2013	2:05:13	1/31/2013	2:14:40	0:09:27	39	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Water From the Scrubber Hitting the Probe. The Scrubber System Was Partially Plugged Which Caused Excess Water in the Scrubber System. Some of the Excess Water Was Able to Pass By the Mist Pad As Water Droplets and Hit the Probe	Stack Gas Flow Rate	Span	Cleaned the Recirculation Filter Baskets and Lowered the Recycle Flow Rate



NORLITE, LLC MACT EXCEEDANCE REPORT - KILN 1

01/22/13 - 01/31/13

Start Date	Start Time	End Date	End Time	Downtime	#	Event	Cause	Parameter	Limit	Corrective Action
1/31/2013	2:43:42	1/31/2013	2:44:40	0:00:58	40	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Water From the Scrubber Hitting the Probe. The Scrubber System Was Partially Plugged Which Caused Excess Water in the Scrubber System. Some of the Excess Water Was Able to Pass By the Mist Pad As Water Droplets and Hit the Probe	Stack Gas Flow Rate	Span	Cleaned the Recirculation Filter Baskets and Lowered the Recycle Flow Rate
1/31/2013	4:58:46	1/31/2013	5:00:02	0:01:16	41	Malfunction	Instantaneous Upper Instrument Setpoint Reached for Stack Gas Span Due to Water From the Scrubber Hitting the Probe. The Scrubber System Was Partially Plugged Which Caused Excess Water in the Scrubber System. Some of the Excess Water Was Able to Pass By the Mist Pad As Water Droplets and Hit the Probe	Stack Gas Flow Rate	Span	Cleaned the Recirculation Filter Baskets and Lowered the Recycle Flow Rate



NORLITE, LLC MACT EXCEEDANCE REPORT - KILN 2 01/22/13 - 01/31/13

Start Date	Start Time	End Date	End Time	Downtime	#	Event	Cause	Parameter	Limit	Corrective Action
1/20/2013	4:56:21	1/20/2013	5:58:40	1:02:19	34	Malfunction	After a Tank Switch, the LGF Pump Started to Pulse Which Caused the Flame to Pulse and CO's to Rise	Carbon Monoxide	Opl	Adjusted the LGF Pump and Pump Pressure
1/24/2013	15:41:18	1/24/2013	15:42:09	0:00:51	35	Malfunction	The Kiln Operator was Controlling LGF Fuel Flow With Valves and High LGF Line Pressure Which Caused a Fuel Flow Surge. This Triggered a Pressure Pulse in the Kiln that Affected the Rear Chamber System / No Visible Emissions	Back Chamber Pressure, 1 Second Delay	Opl	Adjusted LGF Line Pressure and LGF Flow
1/24/2013	18:13:22	1/24/2013	18:18:13	0:04:51	36	Malfunction	Kiln Operators Were Using Valves to Control Fuel Flow. A Fuel Flow Surge was Experienced Due to High LGF Line Pressure Which Caused a Pressure Pulse in the Kiln System	Front Kiln Pressure, 1 Second Delay	Opl	Adjusted Fuel Flow and LGF Line Pressure
1/29/2013	17:10:03	1/29/2013	17:10:34	0:00:31	37	Malfunction	Instantaneous Upper Instrument Setpoint Reached for LGF Flow Span Due to Controlling LGF Flow With Valves While Having High LGF Line Pressure	LGF Flow	Span	Adjusted Fuel Flow